

L 122,0-65
PR-1-1-1

WFO-2/WT(1)/PCC/REC(t)/REF-2
BIO-1-1

D-1/D-1/Pac-1/P1-1/P1-1/

ACCESSION NR AT0006918

AUTHOR Gerasimov, A. M., Chernikov, A.

TITLE Some results of a radar investigation of the structure of the wind field in the presence of a continuous cloud cover or precipitation

SOURCE Teoreticheskaya aerologicheskaya Radiolokatsionnaya metoda aerologicheskaya aerologicheskaya, 3-18

TOPIC 1A-5. Wind measurement, radar structure, lower atmosphere, wind velocity

ABSTRACT: The authors note that studies conducted in 1952 on the use of radar methods is extremely promising in connection with the investigation of the structure of the wind field in the free atmosphere in the presence of a continuous cloud cover or precipitation. The primary purpose of the work reported on in this article and carried out during the summer and fall of 1952 was not only the further elaboration of methods for measuring the velocity and direction of the wind and its pulsation at various altitudes, but also the

Cord 1/3

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ACCESSION NO. AT-00000000

collation of a body of experimental situations. This made it possible to find, wind pulsation, and energy distribution this provided a basis for comparison and with the data given by the same altitudes using different methods used in the observations and analysis. Definition of instantaneous and mean values by the radar station. The effect as the velocity and direction of the wind and it is pointed out that the frequency by means of the Doppler effect of radiation of the radar and between the velocity of the wind and the particles. Depending on whether the particles are moving with or against the wind, the component parallel to the wind is added to or subtracted from the velocity. An outline is given of

various expressions for the frequency of radiation of the radar and between the velocity of the wind and the particles. Depending on whether the particles are moving with or against the wind, the component parallel to the wind is added to or subtracted from the velocity. An outline is given of

Card 2

1. 1991-12-1

ACCESSION NR: AT500000

wind. The specific features of the movement of the radar on the surface results of the measurements in the 50-700 m range are discussed in this paper. It is pointed out that the trapping of the results of radar measurements coincides with a discussion of the pulsations in the velocity and direction of the wind. The paper contains 30 figures, 3 tables, and 3 appendices.

ASSOCIATION: Tsentrallyaya aerologicheskaya Observatoriya

SUBMITTED: 00

NO REF SRC: 000

Card 3 3

L 10742-66 EMT(1)/FCC
ACC NR: AP5023679

UR/0050/65/000/010/0012/0020
UDX 551.(501.75+557)

AUTHOR: Gorelik, A.G. ^{44,55} (Candidate of physico-mathematical sciences);
Kostarev, V.V. ^{44,55} (Candidate of technical sciences)
Chernikov, A.A. ^{44,55} (Candidate of physico-mathematical sciences).

TITLE: Combined coordinate-doppler tracking method of wind observation, with some data on the inhomogeneities of wind fields in the atmosphere

SOURCE: Meteorologiya i gidrologiya, no. 10, 1965, 12-20

TOPIC TAGS: wind, wind profile, wind velocity, wind direction
^{44,55}

ABSTRACT: The authors describe the theory, difficulties and results of wind observations based upon a combined (doppler-coordinate) doppler tracking method previously described by them in detail elsewhere (avtorskoye svidetel'stvo NR 157,465 of 10Oct65). The doppler method, based upon frequency shift of the signal reflected from an airborne target has the advantages of high precision and continuous registration. A combination of doppler and coordinate tracking methods appears therefore promising. Experience showed, however, that pendulous oscillations of suspended reflectors created overwhelming velocity signal noise. Therefore, solid symmetric freely dropped reflector targets were adopted. A theoretical study points to the need of high angular resolution and a small range of altitude elevation angles. This results in long range tra-

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L 10742-66

ACC NR: AP5023679*

3
cking requirement with related requirements of effective reflectors and optimized radar frequencies and pulse repetition rates. Results of 12 reflector drops in the Fall and Winter of 1963 are given, with relative wind velocity pulsations plotted for various altitudes and wind velocities. The RMS wind pulsations reach a maximum of 4% at 400 meters and remain close to 2% between the altitudes of 3 to 12 km. The relative pulsations are practically independent of wind velocity at all altitudes studied. The reflector sinking velocities were fairly constant and reached 4.15 - 4.35 m/s at the ground. The time delay constant of target acquisition of the wind velocity was between .5 and 1.0 seconds, limiting the registered granularity to 5 - 10 meters. The good resolution of the method based on combined doppler and coordinate tracking opens new possibilities for the study of wind structure. Preliminary results point to the presence of a complex mesostructure of the wind field. Orig. art. has: 5 figures, 2 tables and 8 formulas.

ASSOCIATION: Tsentral'naya aerologicheskaya observatoriya (Central aerological observatory) 44.55

SUBMITTED: 3Jun65

ENCL.: 00

SUB CODE: 08

NO REF SOV: 003

OTHER: 000

60

(18)

Card 2/2

CHERNIKOV, A. I.

26459 i ztigin, M. Z. mashiny Dlya uborki kukuruzy i podsolne-chnika. Sel'chozmashina, 1949, No. 8, s. 13-16

SO: LETCFIS' NO. 35, 1949

CHERNIKOV, A. I.

Chernikov, A. I. -- "Kinetics of the Polarographic Reduction of Some Aldehydes and Ketones in Connection With Processes in the Layer Next to the Electrode." Cand Chem Sci, Dnepropetrovsk Chemicotechnological Inst, Dnepropetrovsk 1953. (Referativnyi Zhurnal-- Khimiya, No 1, Jan 54)

SO: SU 163, 22 July 1954

CHERNIKOV, A. I.

USSR/Chemistry - Formaldehyde; Polarography Nov 53

"Polarographic Reduction of Formaldehyde (I) as an Autocatalytic Process," M. A. Loshkarev, A. I. Chernikov, Dnepropetrovsk Chem-Technol Inst

Zhur Fiz Khim, Vol 27, No 11, pp 1718-1724

Investigated the kinetics of the polarographic reduction of I.

274T24

CHERNIKOV, A. I.

✓ The kinetics of the polarographic reduction of aceto-
phenone and benzaldehyde in moderately acid solution
A. I. Chernikov and M. A. Loshkarev (F. E. Dzerzhinskii
Chem. Tekhnol. Inst. Dnepropetrovsk). *Dopovid. Akad.
Nauk Ukr. R.S.R.* 1955, 545-50 (Russian summary).—The
influence of adsorption phenomena on the character of the
polarization curves is elucidated. For the case of a 2-
wave polarogram, the 1st of the waves corresponded to the
reduction in the presence of an adsorption film, the 2nd one
to the reduction in the absence of such film. The limiting
current of the first reduction wave was of kinetic origin and
not of diffusion origin, whereas the electrode reduction
reaction showed a 1-proton mechanism. W. J.

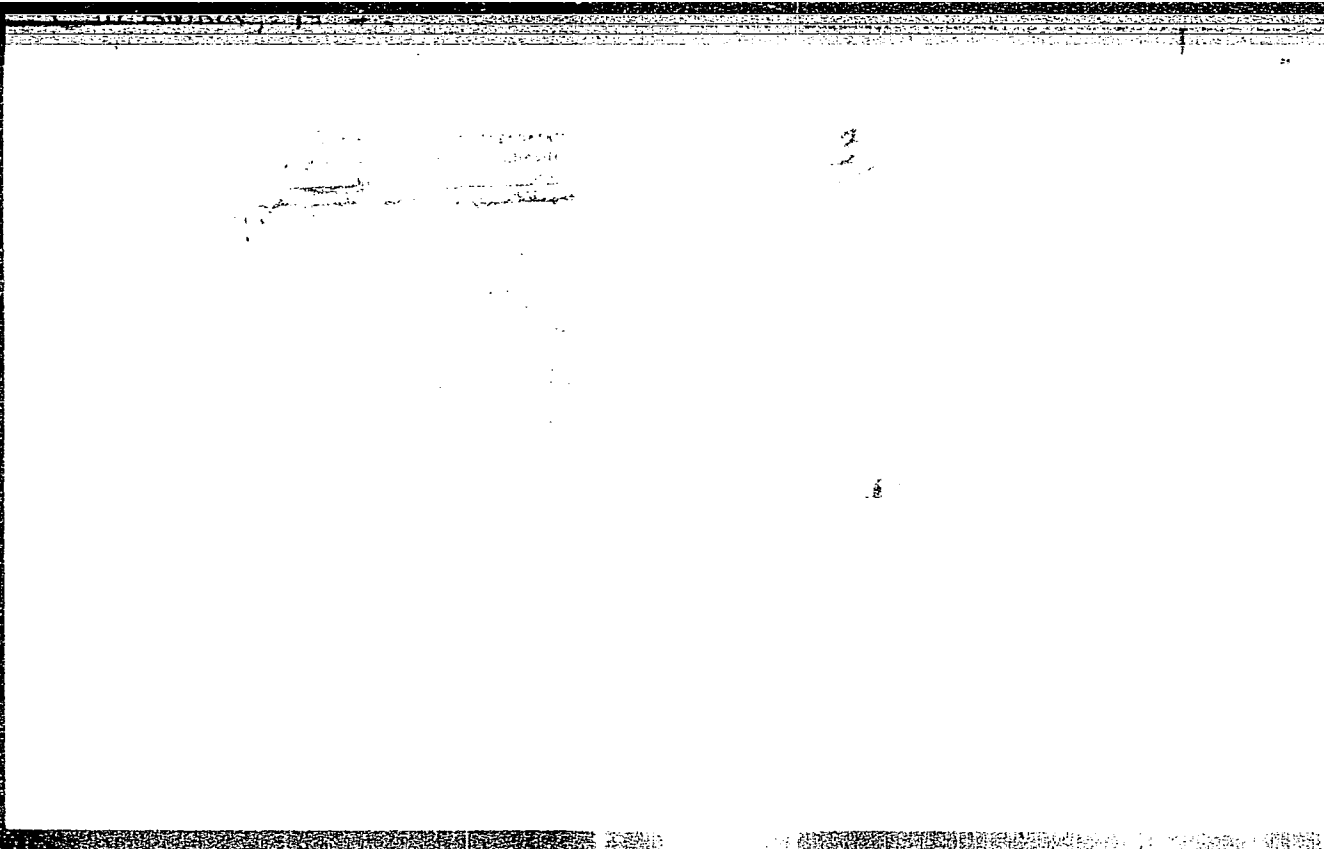
PM

SHELUD'KO, M.K.; CHEERNIKOV, A.I.; ZHILYAYEVA, T.A.

Certain peculiarities in the kinetics of dry regeneration of ammonia with chalk and magnesite. Zhur.prikl.khim. 29 no.5:708-713
My '56. (MLRA 9:8)

1. Dnepropetrovskiy khimiko-tekhnologicheskoy institut imeni F.E. Dzershinskogo.

(Ammonia)



KARTSYNEL', M.B.; CHERNIKOV, A.I.

Adsorption of sulfur dioxide on a chromium-tin catalyst.

Trudy DKHTI no.6:66-71 '58.

(MIRA 13:11)

(Sulfur dioxide) (Adsorption)

CHERNIKOV, A.I.

Appearance of two-wave polarograms during p-hydroxybenzophenone reduction. Trudy DKHTI no.16:121-128 '63. (MIRA 17:2)

1ST AND 2ND ORDERS		PROCESSES AND PROPERTIES INDEX	
CHERNIKOV, A.M.		16	
CA The mechanism of allergic reactions. IV. A. M. Chernikov. <i>Bull. biol. med. exp.</i> 11. R. S. S. 4, 94-6 (1937); <i>Chem. Zentr.</i> 1939, II, 1087; cf. C. A. 31, 5429. The results of earlier work were checked on rabbits. The animals were sensitized by parenteral injection of 1 cc. of horse serum daily. The reactions shown by the sensitized animals to adrenaline and insulin were tested. Changes in the hyper- or hypoglycemia under the influence of intravenous antigen injections were also investigated. From the exptl. results it can be concluded that from the beginning of the sensitization on, the whole nervous system is involved in the process and the sensitivity increases. In artificial stimulation of the vegetative nervous system treatment with antigen produces a reversible paralysis of that system. M. G. Moore			
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION			
SECTION DIVISION		SECTION DIVISION	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	

CHERNIKOV, A.M. 116									
Ca The mechanism of allergic reactions. VII. A. M. Chernikov. <i>Bull. biol. med. exp. U. R. S. S.</i> 6, 477-4 (1940) (in German); cf. C. A. 35, 4008. —The injection of 1 cc./kg. body wt. of normal horse serum into the carotid artery of cats or 0.5 cc./kg. into that of dogs causes distinct changes in respiration and blood pressure within 3-5 days. Repeated injections of the serum gave similar changes to a lesser extent until finally no changes were observed. The injection of Ringer soln., the animal's own serum, gelatin or rabbit serum caused no change. After about 10 days changes can be observed by injection of the serum directly into the A. vertebrae and nicotine injections which caused no respiratory reaction in normal animals or in animals in the 1st stage of sensitization caused a strong reaction. S. A. Karjala									
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION 627.72									
627.72 627.72									

ZVYAGIN, A.V.; CHERNIKOV, A.M.

Chill casting of large cast iron parts. Stroi. i dor. mashinost. 4
no.1:34-36 Ja '59. (MIRA 12:1)
(Molding (Founding))

S/048/60/024/007/009/011
B019/B060

AUTHORS: Korotkov, K. A., and Chernikov, A. M.

TITLE: The Inner Bremsstrahlung Accompanying the Beta Decay of
 P^{32} 19.

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960,
Vol. 24, No. 7, pp. 899-902

TEXT: This is the reproduction of a lecture delivered at the 10th All-Union Conference on Nuclear Spectroscopy held in Moscow from January 19 to 27, 1960. The authors carried out their experiments with the aid of a scintillation spectrometer provided with a NaI(Cl) crystal; the beta particles were absorbed by a beryllium disk $1.025 \text{ g}\cdot\text{cm}^{-2}$ thick. Fig. 1 shows the experimental arrangement which is discussed in great detail. The P^{32} source obtained from a Na_2HPO_4 solution was concentrated on an organic film by evaporation. The spectra were determined with two different sources (2 and 0.11 millicuries). Details concerning the calibration are discussed

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The Inner Bremsstrahlung Accompanying the
Beta Decay of P^{32}

S/048/60/024/007/009/011
B019/B060

and the error of measurement is found to be 6% at higher energies, and 2.5-3% at lower energies. Fig. 2 shows the bremsstrahlung spectrum calculated by Knipp's and Uhlenbeck's theory (Curve 1), the spectrum calculated by allowing for the Coulomb correction (Curve 2), and the experimental results (Curve 3). In the range of lower energies, (up to 175 kev) the experimental values are close above the theoretical ones, at 250 kev they are by 15%, at 500 kev by 28%, and at 1215 kev by 80% above the curve obtained from theory. Taking account of the Coulomb effects in the first approximation did not help to improve the theoretical values appreciably. The authors obtained $2.89 \cdot 10^{-3} \text{ mc}^2/\beta$ for the total energy of the gamma quanta of bremsstrahlung, which is above the theoretical value by 22%. There are 2 figures and 9 non-Soviet references. ✓

ASSOCIATION: Voronezhskiy gos. universitet
(Voronezh State University)

Card 2/2

LUKIN, B.V.; CHERNIKOV, A.M.

Project of a Soviet academic expedition to South America; remarks
on the history of Soviet - Latin American scientific ties. Vest.
AN SSSR 33 no.7:101-103 J1 '63. (MIRA 16:8)
(Scientific expeditions)

CHERNIKOV, A. P.

~~Control of overheating of workers in metallurgic industry.~~

Feldsher & akush, no.5:23-26 May 1951.

(CIAT 21:1)

CA

13

Industrial intoxication with lead and its prevention. A. P. Chernikov. Fel'dsher i Akusherka 1952, No. 2, 14-18. A brief account is given of the common sources of Pb poisoning in industry. Clinical symptoms are described, as are the usual therapeutical methods (Fe preps., liver ext., glycerophosphates, vitamin C, and rest in anemia; atropine and Na_2SO_4 and MgSO_4 enema and intravenous CaCl_2 and Na hyposulfite in lead colic; thiamine and strychnine in polyneuritis). Usual preventives are personal and working cleanliness.
G. M. Kosolapoff

CHERNIKOV, A.P.

Intoxications with hydrogen sulfide and their prevention. Fel'dsher &
akush., Moskva no. 7:19-23 July 1952. (CLML 22:5)

KACHALOV, Sergey Fedorovich; ZHUKOV, G.I., redaktor; ~~CHERNIKOV, A.P.,~~
redaktor; ROMANOVA, Z.A., tekhnicheskii redaktor

[Compiling estimates of expenditures in medical institutions] So-
stavlenie smety raskhodov meditsinskikh uchrezhdenii. Moskva, Gos.
izd-vo meditsinskoi lit-ry, 1955. 49 p. (MLRA 8:7)
(Public health--Finance)

CHERNIKOV, A.P.

VETOSHKIN, Sergey Ivanovich, professor, [deceased]; CHERNIKOV, A.P.,
redaktor; BEL'CHIKOVA, Yu.S., tekhnicheskiy redaktor

[Sanitary engineering for dwellings] Sanitarnaya okhrana zhi-
lishch. Moskva, Gos.izd-vo meditsinskoi lit-ry, 1955. 192 p.
(MIRA 9:1)

1. Chlen-korrespondent AMN SSSR (for Vetoshkin).
(Sanitary engineering,

BOGUSHEVSKIY, Svyatoslav Mikhaylovich, kandidat meditsinskikh nauk; CHERNIKOV, A.P., redaktor; HEL'CHIKOVA, Yu.S., tekhnicheskiy redaktor.

[Labor hygiene during fieldwork with agricultural machines] Gigiena truda pri polevykh rabotakh na sel'skokhoziaistvennykh mashinakh. Moskva, Gos.isd-vo med.lit-ry, 1955. 86p. (MLRA 9:5)
(AGRICULTURAL LABORERS--DISEASES AND HYGIENE)

CHERNIKOV, A.P.

LETAVET, A.A., professor, otvetstvennyy redaktor; PRIOROV, N.N., professor, redaktor; KHOTSYANOV, I.K., professor, redaktor; GHILORYBOV, T.Ye., professor, redaktor; DVIZHKOV, P.P., professor, redaktor; MOROZOV, A.L., doktor meditsinskikh nauk, redaktor; MOLOKANOV, K.P., doktor meditsinskikh nauk, redaktor; MALYSHEVA, A.Ye., kandidat meditsinskikh nauk, redaktor; CHERNIKOV, A.P., redaktor; GIUKHOYEDOVA, G.A., tekhnicheskiiy redaktor;

[Work hygiene, sick rate and prevention of accidents in the metallurgical and mining industry] Gigiena truda, zaboлеваemost' i profilaktika travmatizma v metallurgicheskoi i gornorudnoi promyshlennosti. Moskva, Gos. izd-vo med. lit-ry, 1956. 230 p.

(MIRA 10:1)

1. Akademiya meditsinskikh nauk SSSR, Moskva. 2. Deystvitel'nyy chlen AMN SSSR (for Letavet) 3. Chlen-korrespondent AMN SSSR (for Priorov, Khotsyanov)
(TRAUMATISM) (LUNGS—DUST DISEASES)

DANILOV, Nikolay Vasil'yevich; CHERNIKOV, A.P., redaktor; SENCHILO, K.K.,
tekhnicheskiy redaktor.

[The physiological basis of water in the body] Fiziologicheskie
osnovy pit'evogo resheniya. Moskva, Gos. izd-vo med. lit-ry, 1956.
87 p. (WATER IN THE BODY) (MLRA 9:5)

CHERNIKOV, A.P.

RAYKHMAN, Adol'f Borisovich; VATAZHINA, Antonina Afanas'yevna; ZELINGER,
Ivan Ivanovich; ~~CHERNIKOV, A.P.~~, redaktor; GABERLAND, M.I.,
tekhnicheskiiy redaktor

[Employment of disabled with injuries of the extremities in
agriculture] Trudovoe ustroistvo v sel'skom khoziaistve invalidov
s povrezhdeniem konechnostei. Moskva, Gos. izd-vo med. lit-ry,
1956. 66 p. (MIRA 10:4)

(HANDICAPPED--EMPLOYMENT) (AGRICULTURAL LABORERS)

CHERNIKOV, A.P.

SOKOLOVSKIY, M.S.; otvetstvennyy red.; VEBER, L.G., red.; MUROVANNAYA, S.I.,
red.; KUDRINSKIY, I.N., red.; TRAKHTMAN, N.N., red.; ~~CHERNIKOV, A.P.~~
red.; YEVDOKIMOVA, Z.N., tekhn.red.

[Abstracts of works based on practical experience (1952-1954)]
Referaty nauchno-prakticheskikh rabot (1952-1954 gg). Pod red.
M.S.Sokolovskogo i dr. Moskva, Gos.izd-vo med.lit-ry, 1956. 247 p.
(MIRA 10:12)

1. Moscow. Moskovskaya gorodskaya sanitarno-epidemiologicheskaya
stantsiya.

(BIBLIOGRAPHY--PUBLIC HEALTH)

CHERNIKOV, A.P.

MEL'NIKOV, Yevgeniy Borisovich; CHERNIKOV, A.P., red.; BUL'DYAYEV, N.A.,
tekhn.red.

[Fight silicosis] Bor'ba s silikozom. Moskva, Gos. izd-vo med. lit-
ry, 1957. 40 p. (MIRA 11:4)

(LUNGS--DUST DISEASES)

POLLER, Lev Vladimirovich; CHERNIKOV, A.P., red.; BUL'DINA, N.A.,
tekhn.red.

[Sanitary provisions for field camps on collective farms]
Sanitarnoe blagoustroistvo polevogo kolxoznogo stana. Moskva,
Gos.izd-vo med.lit-ry, 1957, 52 p. (MIRA 11:12)
(Farm buildings)

Chernikov, A.P.
ABRAMOV, Aleksandr Ivanovich; CHERNIKOV, A.P., red.; LYUDKOVSKAYA,
N.I., tekhn.red.

[The work of the physician in Pioneer camps in the country]
Rabota vracha v zagorodnom pionerskom lagere. Moskva, Gos.
izd-vo med.lit-ry, 1957. 65 p. (MIRA 11:1)
(CAMPING) (CHILDREN--CARE AND HYGIENE)

YEREMEYEV, G.V., kand.meditsinskikh nauk; CHERNIKOV, A.P., red.;
NOVIKOV, Yu.V., red.; GABERLAND, M.I., tekhn.red.

[Methods for the sanitary collection, processing, and use of
refuse] Gigienicheskie uslovia zagotovki, obrabotki i
ispol'zovaniia utilia. Moskva, Medgiz, 1959. 102 p. (MIRA 12:5)
(Refuse and refuse disposal) (Industrial hygiene)

RYABOV, Petr Ivanovich, kand.tekhn.nauk, starshiy nauchnyy sotrudnik.
Prinimala uchastiye: RYABOVA, L.P., ~~CHERNIKOV~~, A.P., red.;
NOVIKOV, Yu.V., red.; ~~SENCHILO~~, K.K., tekhn.red.

[Field sanitation engineering] Polevaia sanitarnaya tekhnika.
Izd.2., perer. i dop. Moskva, Gos.isd-vo med.lit-ry, 1959.
454 p. (MIRA 12:7)

(Sanitary engineering)

CHERNIKOV, B.P.; BOGDANOV, V.M.; PUGACHEV, A.N.

Machines for the placement of mineral fertilizers. Trakt. i sel'khoz mash.
no.6:39-40 Je '65. (MIRA 18:7)

1. Tsentral'naya mashinolspytatel'naya stantsiya.

CHERNIKOV, Bronislav Alekseyevich; KAZANSKIY, N.V., red.; DOLGOVA,
K.N., red. izd-va; KHENOKH, F.M., tekhn. red.

[Safety engineering in the major repairing of apartment
houses] Tekhnika bezopasnosti pri kapital'nom remonte
zhilykh zdaniy. Moskva, Izd-vo M-va kommun.khoz.RSFSR,
1963. 127 p. (MIRA 17:3)

CHERNIKOV, Boris Pavlovich, st. nauchn. sotr.; ANIKEYEV, Ye., red.

[Technology of the surface of layer method of procuring
peat fertilizers] Tekhnologiya poverkhnostno-posloinoi za-
gotovki torfiannykh udobrenii. Smolensk, Smolenskoe knizh-
noe izd-vo, 1963. 35 p. (MIRA 17:5)

CHERNIKOV, Bronislav Alekseyevich

[Labor protection in the overall repair of residential
buildings; public inspectors' handbook] Okhrana truda
pri kapital'nom remonte zhilykh zdani; v pomoshch'
obshchestvennomu inspektoru. Moskva, Stroizdat, 1964.
84 p. (MIRA 17:10)

CHERNIKOV, B.P.

NGP-0, 75M mounted hydraulic loader. Trakt. i sel'khoz mash. 30
no. 11:33-34 N '60. (MIRA 13:12)

1. Tsentral'naya mashinnoispytatel'naya stantsiya.
(Loading and unloading)

CHEERNIKOV, B.P.

Fg-0,5D bucket loader. Trakt.i sel'khoz mash. 3l no.9:30-31
S '61. (MIRA 14:10)

1. TSentral'naya mashinoispytatel'naya stantsiya.
(Loading and unloading)

AVDEYEV, N.Ye.; PUGACHEV, A.N.; PSHECHENKOV, K.A.; CHERNIKOV, B.P.

Machinery tested at the Central Machinery Testing Station. Trakt.
i sel'khoz mash. 32 no.4:39-41 Ap '62. (MIRA 15:4)
(Agricultural machinery--Testing)

CHERNIKOV, B.P., inzh.

Tractor trailers. Trakt. i sel'khoz mash. 32 no.6:33-34 Je '62.
(MIRA 15:6)

1. TSentral'naya mashinospytatel'naya stantsiya.
(Tractors---Trailers)

CHERNIKOV, B.P., inzh.

New transportation vehicles and loading devices. Mekh. i
elek. sots. sel'skoz. 20 no.3:48-52 '62. (MIRA 15:7)
(Agricultural machinery)

CHERNIKOV, B.P., inzh.

A universal TUP-3PP trailer-mounted fertilizer spreader. Trakt. 1
sel'khozmas. 32 no. 7:29 J1 '62. (MIRA 15:7)

1. Tsentral'naya mashinostpyatel'naya stantsiya.
(Fertilizer spreaders)

VERESHCHAGIN, N.I.; PUGACHEV, A.N.; PSHECHENKOV, K.A.; CHERNIKOV, B.P.

Machines tested at the Central Machinery Testing Station. Trakt.
sel'khoz'mash. 33 no.6:39-40 Je '63. (MIRA 16:7)

1. Tsentral'naya mashinopyspytatel'naya stantsiya.
(Agricultural machinery)

YASENEVICH, V.Ye.; KOPYLOV, M.K.; CHERNIKOV, B.P.

Results of testing the brake systems in truck trailer trains.
Trakt. i sel'khoz mash. 33 no.9:12-14 S '63. (MIRA 16:10)

1. Gosudarstvennyy soyuznyy nauchno-issledovatel'skiy traktorny
institut (for Yasenevich, Kopylov). 2. Tsentral'naya mashinoispy-
tatel'naya stantsiya (for Chernikov).
(Truck trailers—Brakes)

LITVINOV, M.A., kand. tekhn. nauk; YANISHEVSKIY, F.V., kand. sel'-
khoz. nauk; TIKHONCHUK, Yu.N., kand. ekon. nauk; CHERNIKOV,
B.P., inzh.; BOGDANOV, V.M., inzh.; CHICHEVA, L.I., red.

[Mechanization of the placement of mineral fertilizers] Me-
khanizatsiia vneseniia mineral'nykh udobrenii. Moskva,
Kolos, 1965. 173 p. (MIRA 18:5)

LOBANOV, B.; CHERNIKOV, D.

Environmental chamber for plants. Tekh.mol. 29 no.3:7 '61.
(Botanical research) (Greenhouses) (MIRA 14:3)

LOBANOV, Vitaliy Nikolayevich; CHERNIKOV, Dmitriy Aleksandrovich; LANINA,
L.I., red.; NAZAROVA, A.S., tekhn. red.

["Vostok-2" is in space; story on the spaceflight of astronaut
G.S.Titov] V kosmose - "Vostok-2"; rasskaz o polete vo vselennuiu
letchika-kosmonavta G.S.Titova. Moskva, Izd-vo "Znanie," 1961.
47 p. (Vsesoiuznoe obshchestvo po rasprostraneniui politicheskikh i
nauchnykh znanii. Ser.10, Molodezhnaia, no.18) (MIRA 14:9)
(Astronautics) (Titov, German Stepanovich, 1935-)

CHERNIKOVA, D.M.

Reflection and transformation of sound waves falling on the vapor--
liquid He II boundary. Zhur. eksp. i teor. fiz. 47 no.2:537-542 Ag
'64. (MIRA 17:10)

1. Moskovskiy fiziko-tekhnicheskoy institut.

CHERNIKOV, F.S.

RT-169 (The water regime of light chestnut-brown soil in the open and under shelterbelts).
Vodnyi rezhim svetlokashtanovoi pochvy v pole i pod lesnymi polosami.
Lesnoe Khoziaistvo, 16-18, November 1951.

CHEKNIKOV, F. S.

Dissertation: The Growth and State of Field-Protecting Plantings in the Light-Chestnut Argillaceous Soils of the Yergeni Mountains." Cand Agr Sci, Inst of Forestry, Acad Sci USSR, 25 Jun 54. (Vechernyaya Moskva, Moscow, 16 Jun 54)

SO: SUM 318, 23 Dec 1954

Chernikov, F.S.

USSR/Forestry - Biology and Typology of the Forest.

K-2

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10566

Author : Chernikov, F.S.

Inst : ~~USSR/Forestry - Biology and Typology of the Forest.~~

Title : The Water Supply of Forests on the Light Chestnut Soils of Yergeni.

Orig Pub : Pochvovedeniye, 1957, No 3, 48-57

Abstract : The results are given of a series of observations on the soil moisture regime of the Zavetin forest belts on the boundary between Astrakhanskaya and Stalingradskaya oblast's. On the area of observation the ground waters lay at a very great depth. The belts were planted in 1932, the principal species being British oak. The water needs of the tree plantations (determined by multiplying evaporation during the vegetation period by a coefficient of 0.85) on the Zavetin plot are 900 mm. The water supply varies between 85% and 11%; in the second half of the

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CHERNIKOV, F.S.

Thermal conditions in light-colored loamy Chestnut soils of fields
and forest belts of the Yergeni Hills [with summary in English].
Pochvovedenie no.4:67-73 Ap '58. (MIRA 11:5)

1. Zavetinskiy agrolesomeliativnyy oprnyy punkt Vsesoyuznogo
nauchno-issledovatel'skogo instituta agrolesomeliatsii.
(Yergeni Hills--Soil temperature)

ACC NR: AP6013584

SOURCE CODE: UR/0144/65/000/003/0342/0345

AUTHOR: Chernikov, Georgiy Borisovich (Aspirant)

ORG: Department of Electrical Stations, Networks and Systems, Novocherkassk Polytechnic Institute (Kafedra elektricheskikh stantsiy, setey i sistem Novocherkasskogo politekhnicheskogo instituta)

TITLE: Method for the improvement of operation of ionic excitation systems of large hydro-generators

SOURCE: Izvestiya vysshikh uchebnykh zavedeniy. Elektromekhanika, no. 3, 1965, 342-345

TOPIC TAGS: electric power transmission, electric generator, electronic rectifier

ABSTRACT: The long-distance transmission of large amounts of electric power made the introduction of fast acting excitation systems - the ionic exciters - necessary. Attempts to improve the valve operation of such systems, reduce their oscillations, and improve the utilization of the power supply led to special complicated ionic exciter circuits containing a large number of valves (with, e.g., groups of valves with ordinary and forced operation). However, such improvements are possible even in the cases of ordinary ionic exciter using standard circuit loops (bridge scheme or a six-phase scheme with an equalizing reactance). After a comprehensive theoretical discussion of an independent excitation system consisting of an ionically excited auxiliary

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UDC: 621.311.21

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generator which feeds the main generator rotor through a bridge rectifier, the author reports that presently half of the units of the Volzhskaya GES im. XXII Congress of the CPSU are equipped with such modified exciter systems. These systems do not stabilize the ionic exciter power supply; instead, the auxiliary generator phase voltage is reduced to a mere 635 V, i.e., down to a value at which, according to the theoretical discussion, the normal operation of the equipment is secured (at 85% of the nominal active magnitude of the phase voltage of the auxiliary generator). Tests showed that during forced operating conditions the rate of increase in the main rotor current was 10% larger than in the case of previously used voltage parameters. Orig. art. has: 2 figures and 4 formulas. [JPRS]

SUB CODE: 10, 09 / SUBM DATE: 22Jun64 / ORIG REF: 001

Card 2/2 PB

CHERNIKOV, G.

With an outstanding team. Mashinostroitel' no.2:10 F '62.
(Minsk—Bearing industry) (MIRA 15:2)

CHERNIKOV, G.B., inzh. (Zhigulevsk)

Approximate calculation of the effect of additional torques of
hydraulic generators on the dynamic stability of electric trans-
mission. Elektrichestvo no.3:25-29 Mr '60. (MIRA 13:6)
(Electric power production)

CHEBNIKOV, G.B., inzh.

Performance of nonregulated semiconductor rectifiers in asymmetric modes of operation. Elektrichestvo no.8:49-54 Ag '65. (MIRA 18:9)

1. Volzhskaya gidroelektrostantsiya imeni XXII s"yezda KPSS.

CHERNIKOV, Georgiy Borisovich, aspirant

Converters with dividing rectifiers. Izv. vys. ucheb. zav.;
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cherkasskogo politekhnicheskogo instituta. Submitted May 31,
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System for ionic excitation of large generators driven
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CHERNIKOV, G.B., inzh.

Comparison of the electronic exciters of two large hydroelectric power stations. Elek. sta. 33 no.10:45-49 0 '62. (MIRA 16:1)
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Improved methods and instruments for air depressure readings.
Izv. DGI 31:58-68 '58.

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